3: Lorimer L-3 (1920-4; 1934-5) 1935 AV7 Burusho AV7

In the first case the answer is easy. The Wakhis are certainly 563
of totally distinct stock from the Burusho. Much more difficult
is the question of the relation of the Burusho and the Shina-speakers.
My visual impressions would lead me to regard the Shèn of lower
Nagir as an essentially different people from the Burusho of Hunza.
They seem to me to represent a distinctly lower type in regard to
apparent mentality and sanitary ideals. A large proportion of the
child-population of Minapin and the villages below it are cretinous
in appearance and dirty in person. I have not had an opportunity
of comparing the people of the Hunza Shèn villages of Hindi and
Mayun, either with their Nagir *vis à vis* or with their Burusho fellow-
"nationals". How far again is there any difference between the 184
Burusho of Hunza and the Burusho of Nagir? That is a question 157
which I cannot answer from any adequate personal observation; 361
but it is the general impression among European visitors that there
is a marked difference in temperament between the two peoples.
The Hunza Burusho are felt to be a happy and cheerful people,
their Nagir counterparts give an impression of something approaching
sombreness and depression. This alleged difference is attributed to
the effect of living respectively on the sunny and on the shady, in
winter almost sunless, side of the valley. It might also be in part
attributable to political conditions or religious outlook.

There is a further criterion which is of dubious value, but may be 125
worth brief mention here. In 1924 I took a number of anthropometrical 141
measurements of men of all parts of the Gilgit Political Agency.
The subjects were members of the Gilgit corps of Scouts, and so
were all men in their prime, mostly in early manhood. These measure-
ments were recorded uninstructedly according to an antiquated scheme
of Topinard's and modern experts have judged them not worth wasting
time and labour on, but they were taken on a consistent technique and
are therefore comparable among themselves. I shall quote here only 141
measurements which, in the nature of things, it seems probable are rea-
sonably correct. The figures given are averages obtained by dividing
the sum total of measurements in each case by the number of subjects.

3: Lorimer L-3 (1920-4; 1934-5) 1935 AV7 Burusho AV7

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District	Number of Subjects	Head Measurements in Centimetres			Cephalic Index	Height in Feet & Ins.
		Ant.-Posterior Diameter	Transverse Diameter	Frontal Minimum		
Hunza . .	138	19·135	14·833	10·423	76·834	5′ 6$\frac{8}{11}$″
Nagir . .	152	19·411	14·256	9·536	73·424	5′ 5$\frac{1}{2}$″
Yasin . .	78	19·035	14·788	10·413	77·714	5′ 6$\frac{1}{10}$″
Gilgit . .	40	19·362	14·493	10·075	74·931	5′ 4$\frac{15}{16}$″
Astor . .	43	19·005	14·494	10·197	76·306	5′ 3$\frac{1}{2}$″
Punial . .	65	19·165	14·611	10·342	76·286	5′ 5$\frac{13}{16}$″
Kuh-Ghizer	78	19·099	14·791	10·217	77·432	5′ 5$\frac{19}{11}$″

Without allowing too much importance to these figures, we may tentatively accept a considerable difference between the Hunza and Nagir subjects in cephalic index and its factors, in frontal minimum and in height. The Nagir type seems to approximate to the Gilgit type, while the Hunza type approaches to that of Yasin. These conclusions receive further support from a detailed examination of the figures. I have plotted the numbers under each figure of the anterior-posterior and transverse diameters of the head, and of the height, and very similar curves are yielded by the Hunza and Yasin records; and the same holds of the Nagir and Gilgit records.

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My own visual impressions, however, for what they are worth, would suggest that in physique and feature there is a perceptible difference between the Burushaski-speakers of Hunza and the Werchikwar-speakers of Yasin. It is to be noted that both the Hunza and Nagir subjects are almost entirely Burusho; only a few individuals of those measured came from the Shina-speaking villages. This difference in the attitude to a very mild form of militarism may indicate an inherent difference of temperament. On the other hand it may be due to economic or other unsuspected causes.

1: Leitner L-3 (1866-93) 1893? AV3 Dard AV3
Burusho AV 7

V.—ANTHROPOLOGICAL OBSERVATIONS ON DARDS AND KAFIRS IN DR. LEITNER'S SERVICE.

(*Measurements in Centimetres.*)

000

1. ABDUL GHAFÛR, KAFIR OF KAMÔZ, *about 24 or 25 years of age.*

Height, 168·5; hair, black; eyes, hazel; colour of face, ruddy; colour of body, very light brown; narrow forehead; high instep; big boned; length round the forehead, biggest circumference of head, 53·75; protruding and big ears; square face; long nose, slightly aquiline; good regular teeth; small beard; slight moustache and eyebrows; distance between eyebrows, ordinary; good chest; fine hand; well-made nails. Weight, 10 st. 2½ lbs.

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2. KHUDAYÁR, YASHKUN NÁGYRI; *age* 24.*

Height, 182; colour of body, light yellow brown; round the head, 52·5; teeth, good, regular; nose, very slightly aquiline; little growth on upper lip; none on cheeks; long, straight, coarse black hair; eyes, hazel; ears, not so protruding; better-proportioned forehead; small hand; good instep; foot bigger, in proportion, than hand (not so good as other's hand); 80 puls*. Weight, 9 st. 10 lbs.

3. IBRAHÎM, RÔNO, NAGYRI; *age* 34.

Height, 162·3; round the head, 56·5; eyes, dark brown; big hands and feet; instep, good; colour, brown; good muscular foot; strong arms; hair, black; plentiful growth on upper lip; nose, aquiline; broad nostrils; full lips. Weight, 10 st. 12 lbs. (No. 10 on Drawing 1 of Appendix IV.)

4. MATAVALLI, YASHKUN OF HUNZA; *age* 30.*

Height, 164·0; very hairy, including hands; round the head, 54·0; head, pyramidal pointed; sinister countenance; very big hands and feet; thin lips; great moustache, coarser hair; more flat-soled than rest. Weight, 9 st. 8½ lbs. (*Full details in "Comparative Table."*)

5. SULTAN ALI, YASHKUN OF NAGYR; *age* 35.

Height, 165·25; round the head, 53·75; square head; retroussé, small nose; small mouth; red beard, plentiful; black hair; brown eyes; very big hands and feet, also instep. Weight, 9 st. 12 lbs. (No. 11 on Drawing 1 of Appendix IV.)

6. KHUDÂDAD OF NAGYR; *age* 30.

Height, 163·3; round the head, 54·4; stupid expression; big chest; ordinary hands and feet; low forehead; rising head; very muscular; eyes, brown; complexion, brown; thickish nose; very narrow forehead; underhung jaw; lots of hair. Weight, 9 st. 12 lbs. (No. 3 on Drawing 1 of Appendix IV.)

7. HATÂMU OF NAGYR; *age* 16.

Height, 162·1; round the head, 54·4 (broad head); low Grecian forehead; small nose; eyes, dark brown; light brown complexion; small hands and feet; regular, white teeth. Weight, 7 st. 13 lbs. (No. 4 of above Drawing.)

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8. GHULAM MUHAMMAD, SHÎN OF GILGIT; *age* 38.*

Height, 161·9; round the head, 54; beard, prematurely grey; lost second incisor; small hands and feet; fair instep; brown eyes and complexion; nose, straight; ears all right. Weight, 8 st. 5 lbs.

* See also "Comparative Table" at the end of this Appendix, and the "Anthropological Photograph" facing this page. Read also page 1 of Appendix IV. "The Races of the Hindukush," opposite to Drawing 1 of that Appendix, on which look for Nos. 1, 6, and 9.

1: Latimer L-8 (1866-92) 1892? AV2 Dupl AV2
B.O.A.I. A.7
B
D
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COMPARATIVE TABLE OF ANTHR

(The first five and the last

	A MATAVALLI.*
Date and place of observation	2-6-81 : Simla
Age ; sex ; profession	32 yrs. ; m. ; peasant and warri
Caste, tribe, and tongue	Yashkun ; Khajund ; Burishi
Religion and birthplace	Shiah ; (probably Mulai) Hunz
Thin, medium, or stout	medium
Weight†	9 st. 8½ lb.
Colours § skin, exposed parts	33 (red brown)
" covered parts	21 (light red brown)
" hair	48 (black)
" beard	41 (black)
" eyes	3 (light brown)
Hair : straight, wavy, curly, frizzled, or woolly	straight
Beard : thick (abundant), scanty, or none	thick, long and stiff
Skin : smooth, a little, or very hairy	very hairy
Shape of profile of nose (p. 211) No.	2 (nearly quite straight)
Lips : thick, medium, or thin	medium (arched)
" straight, or turned outwards	straight
Teeth : large, medium, or small	small
" incisors, straight (vertical), slanting, or very slanting	straight (incisors wide apart)
The set of teeth : very good, good, medium, bad, or very bad	good (but dirty)
Skull Diameters : antero-posterior, maximum	195 millim.
" " frontal	130 "
" transverse, maximum	144 "
" auriculo-vertical (B. m.)	116 "
Curves : inio-frontal	345 "
" horizontal	340 "
" transverse sub-auricular	330 "
facial angle (Camper)	81 °
From point of chin to edge of hair	185 "
" ophryon to alveolar point	93 "
Breadth between zygomata	139 "
Length of nose	48 "
Breadth of nose	31 "
From ophryon to root of nose	12 "
Width between inner angle of eyes	—
" cheekbones	94 "
Height (standing)	164 centim.
" (sitting)	106 "
Greatest extension of arms	160 "
" " of span	90 "
Total length of foot	25 "
Length of ditto, ante-malleolar	20 "
Forehead	high ; slightly receding
Frontal bone (bord sourcilier)	very marked
Intra-ocular distance	scarcely any
Eyebrows	bushy, crossing, forming but one lin
Eyes	straight
Cheeks	little salient
Zygomatic arch	very salient
Chin	oval
Ears	medium, little salient (round, small
Mouth	
Neck	strong
Torso	strong
Extremities	very small

* For additional measurements, see page 2. He is No. 6 of Drawing 1 of Appendix IV.

† I was obliged to get myself measured in order to encourage the Dards and Kafirs to allow themselves those of dolichocephalic Maxwell 77·8, mesocephalic Khubbish 78·7, mesocephalic Ghulam Mohammed may also be compared with Abdul Ghafur's, 77·5 ; Khubbish's, 80·3 ; Dardan's, 80·3 ; Maxwell's, 8 details regarding those of them, and adds the measurements of three other Dards (Ghulam, Abdullah, an the amplitude of the frontal region of the Dards's herdsmen, on the drawing opposite to page 76 of the

‡ There were also weighed the Kunduz Kafir Abdulghafir, age 23 or 24, weighing 10 st. 2lb. ; and

§ The numbers refer to the tables published by Broca, Topinard and Houzé.

[facing p. 198 : a]

Ir Lahore L-8 (1866-67) 1867? AVS Dard AVS
Gurais, AV7

ANTHROPOLOGICAL OBSERVATIONS ON SOME OF THE DARDS

are described by the French system; the sixth by the German system, put into millimetres and

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B KHUDÁYÁR	C GHULAM MUHAMMAD.	D GHULÁM.
... ... 9-6-81; Sinin	.. 9-6-81; Sinin ...	... ——— Sinin ... ...
... 21 yrs.; m.; student ...	40 yrs.; m.; agriculturist	... 18 yrs.; m. ...
Yashkun; Khajund; Burishki	Shind	Shin (Kashmir subject)
... ... Shinh; Nagyr	... Shinh; Gilgit ...	Sensi; Gurkhit near Astor
... ... thin	... medium ...	... ...
... ... 9 st. 10 lb.	... 8 st. 5 lb. ...	... ...
... ... 54	... ... 58	... ... 52 ... ...
... ... 47	... ... 58	... ... 53 ... ...
... ... 48	... ... grey	... ... 48 ... ...
... ... 43	... ... grey	... ... 48 ... ...
... ... 3	... ... 3	... ... 1 ... ...
... ... curly	... ... curly	... ... curly ... ...
... ... scanty	... ... very thick ...	... ... thick ... ...
... ... a little hairy	... a little hairy ...	... very hairy ...
... ... 5	... ... 5	... ... 5 ... ...
... ... medium	... medium ...	... ... thin ... ...
... ... straight	... straight ...	... ... straight ... ...
... ... medium	... large	... ... small ... ...
... ... straight	... straight ...	... ... straight ... ...
... ... very good	... ... good	... ... very good ...
... ... 183	... ... 186	... ... 187 ... ...
... ... 180	... ... 187	... ... 185 ... ...
... ... 144	... ... 144	... ... 144 ... ...
... ... 109	... ... 123	... ... 110 ... ...
... ... 325	... ... 325	... ... 335 ... ...
... ... 325	... ... 340	... ... 340 ... ...
... ... 315	... ... 300	... ... 335 ... ...
... ...	... ...	... ...

1: Leitner L-3 (1866-93) 1893? AV3 Dard AV3

S IN DR. LEITNER'S SERVICE. Burushó AV7

centimetres respectively.)

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E ABDULLAH.	F MIR ABDULLAH. **	G † DR. LEITNER.
.. 2-6-81 : Simla ...	... 23-3-86 : Lahore ...	2-6-81 : Simla
) yrs. ; m. ; agriculturist	... 30 yrs. ; m. ; Jurist ...	... 40 yrs.
hin ; (Kashmir subject)	... Dard ; Gabriál ...	
nni ; Gurukót near Astor	... ... Sunni	
.. ...medium	... . . medium	stout
.. ..	... ...	... 14 st. 4 lb.
.. ... 37	forehead & cheeks, reddish-brown	... 25 (very fair)
.. ... 37	lips, pink ; covered parts, lighter	... 24 (very fair)
.. ... 48	... ... black	... ... fair
.. ... 48	... ... red-brown	fair ; slightly red
.. ... 1	dots : dark brown ; dash : white, blemish, injected	... 14 (blue)
.. ... curly	... black, short, curly ...	... ... curly
very thick ...	straight ; woolly ; brown-reddish	... abundant
.. very hairy ...	hairy on breast, little on arms	... very hairy
5, very high nostrils	... ... convex	 5
.. medium ...	... ... thin, arched	... medium
little turned outward	... ... thin, straight	... thin, straight
.. ... small	... ... small	... medium
.. straight ...	... ... straight	... vertical
.. very bad ...	... transparent, very white ...	... medium
.. ... 193	... ... 160	 201
.. ... 183	... ... 180	 200
.. ... 140	... . 141	 163
.. ... 114	... ... 119	 126
.. ... 345	... ...	 340
.. ... 520	... ... 530	 600
.. ... 320	... ...	 330
.. ... 81	... ...	 73
.. ... 177	... ... 191	 193
.. ... 75	... .	 94
.. ... 132	... ... 136	 133
.. ... 52	... ... 59	 54
.. ... 39	... . 35	 33
.. ... 20	... ...	 16
.. ... 38	... ... 34	 35
.. ... 108	... ...	 103
.. ... 152	... ... 166	 171
.. ... 124	... .	 126
.. ... 165	... ... 165	 182
.. ... 19	... ...	 19
.. ... 23½	... ... 25·½	 27
.. ... 19½	... ...	 22
.. high ; straight ...	high ; breadth of forehead 107	high ; slightly receding
.. scarcely any ...	... ... pronounced	very pronounced
.. not deep ...	... deep ; distance 3·4 ...	... very small
arched, bushy, crossed	... standing far apart, thin ...	... arched
.. straight ...	... ... straight	... straight
.. little salient ...	... ... very salient	... ...salient
.. much developed ...	... ... salient	... not salient
.. ... oval	... ...oval	... square
.. medium flat ...	... long ; height of ear 6·3 ...	... medium
.. ... thick	... length of mouth 5·3 ...	... medium
. ... strong	. ... proportioned	... strong
. slim (svelte) ...	.... proportioned	.. vigorous
. medium ...	... ... small	... medium ‖

ppendix IV. For additional measurements, see page 2.
may have some interest. His brachycephalic Cranial Index 81·44 may be compared with
93·82, which give an average of 75·55. The European's circumference of head, 60 centimetres,
erence of the heads of the eight Dards and Kafirs on the first page. This Table supplies further
. Those taken by Dr. Neill have been lost. Notice also the fine formation of the head and

) Haizuna, 16 years old, and weighing 7 st. 13 lb.
142 ; to epicondyle, 106 ; styloid apophysis of the radius, 82 ; to the end of middle finger, 64.

[facing p. 198: c]